3 Hardware and Software Requirements

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BASINS Version 3.0 is a customized ArcView GIS application that integrates environmental data, analysis tools, and modeling systems. Therefore, BASINS' hardware and software requirements are, at a minimum, similar to those of the PC-based ArcView 3.1 or 3.2 system. BASINS can be installed and operated on IBM-compatible personal computers (PCs) equipped with the software, random access memory (RAM), virtual memory, and hard disk space presented in Table 3.1.

Because the performance (response time) under the minimum requirements option might be too slow for some users especially when dealing with large data sets, a preferred set of requirements is also included in Table 3.1. For some advanced features of BASINS 3.0, such as the automatic watershed delineator or the SWAT model, the ArcView Spatial Analyst software is required. This software is not included with ArcView and must be obtained separately.

Table 3.1. **BASINS Hardware and Software Requirements**

Hardware/Software	Minimum Requirements	Preferred Requirements
Processor	166-MHz Pentium processor	400-Mhz Pentium II processor or higher
Available hard disk space	For a single 8-digit watershed (cataloging unit), allow for 300 Mb (50 Mb for BASINS system, 150 Mb for BASINS Environmental Data, and 100 Mb of free operating space for storage of generated themes and tables).	2.0 Gb (50 Mb for BASINS system, 750 Mb for BASINS environmental data for approximately 1 state, and 1.2 Gb of free operating space for storage of generated themes and tables).
Random access memory (RAM)	64 Mb of RAM plus 128 Mb of permanent virtual memory swap space	128 Mb of RAM plus 256 Mb of permanent virtual memory swap space
Compact disc reader	Quad speed reader (one-time use)	24X reader (one-time use)
Color monitor	Configured for 16 colors, Resolution 1024x768	Configured for 256 colors
Operating system	Windows 95, Windows 98, NT*	Windows 95, Windows 98, NT*
ArcView	ArcView Version 3.1 or ArcView version 3.2, Spatial Analyst Version 1.1 optional	ArcView Version 3.1 or ArcView version 3.2, Spatial Analyst Version 1.1

 QUAL2E cannot operate on NT.

Microsoft Excel 97/2000 is recommended for use with the PLoad extension. Internet Explorer 5.0 or newer is required to view help files.